

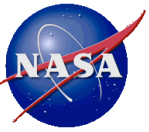


Standards Update

Engineering Node

Nov 14, 2005

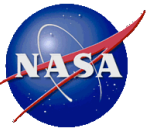
<http://pds.nasa.gov>



Priorities Set by MC



- Perform clean-up of standards
- Perform clean-up of Planetary Science Data Dictionary
- Begin identifying changes required for PDS4



Standards Reference



Broad categories of problems to be addressed:

- fix typographical and grammatical errors
- provide more logical organization
- fix errors / inconsistencies in examples
- justify requirements
- clarify recommendations vs requirements
- establish clear set of core requirements
- simplify data formats / objects
- remove dependencies on archaic hardware / software



Planetary Science Data Dictionary



Broad categories of problems to be addressed:

- fix typographical errors
- rewrite unclear or inadequate keyword definitions
- fix problems with standard values
- fix errors in keyword parameters
- fix syntactical errors involving application of class words
- provide versioning
- provide structure to define relationships among keywords
- provide mechanism for tracking definitions of standard values
- move to local data dictionaries
- make object definitions more rigorous
- provide notification of changes in updates (done)



Data Model



Re-evaluate data model; update as necessary in the following areas:

- fully specify relationships among components of the model
- re-evaluate for unexpected cases (one-to-many inst-to-inst_host)
- fix software and document objects
- modify top level of model (collections / missions / campaigns / etc.)
- consider extending model to deeper level



Miscellaneous



The following issues have been raised by multiple nodes, but fall outside the scope of the current priorities identified by the MC:

- documentation standards need to be simplified
- many processes are not formalized and clearly documented (new keywords, local data dictionary, new standard values, peer reviews, media refreshing, document refreshing)
- lack of transparency into EN processes (build schedules, updates to resource links)



Next Steps / Schedule



- Standards Reference v3.7 (Dec 05)
 - includes all approved standards in implementation queue
- Analysis of problems with Standards Ref & PSDD (Dec 05)
- Identify problems as PDS3 clean-up vs PDS4 (Dec 05)
- Standards Reference v3.8 and fix to PSDD (Jun 06)
 - includes issues identified as PDS3 clean-up
- Update and document PDS data model (spring 06)
- Complete design of PDS4 (Jun 07?)
- Implement PDS4 (Dec 07?)
 - revised data model implemented in PSDD / catalog
 - Standards Reference v4.0